

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1-20. (Canceled)

21. (New) A method for identifying a far-end modem type, comprising:

receiving a response signal from a far-end modem in response to a transmitted V.8 ANS_{am} tone; and
determining from the response signal whether the far-end modem is a commercial modem or a secure modem.

22. (New) The method of claim 21, wherein determining whether the far-end modem is a commercial modem or a secure modem comprises determining whether the far-end modem is a V.series modem or a future secure voice system modem.

23. (New) The method of claim 22, wherein determining whether the far-end modem is a commercial modem or a secure modem comprises:

determining whether the response signal is a V.8 CM tone; and
if the response signal is a V.8 CM tone, determining that the far-end modem is a V.8 modem.

24. (New) The method of claim 21, wherein determining whether the far-end modem is a commercial modem or a secure modem comprises:

determining whether the response signal has a nominal frequency of about 1800 Hz;
and
if the response signal has a nominal frequency of about 1800 Hz, determining from the response signal whether the far-end modem is a V.32 modem or a secure modem.

25. (New) The method of claim 24, wherein determining whether the far-end modem is a V.32 modem or a secure modem comprises:

determining whether the response signal includes phase shifts; and

if the response signal does not include phase shifts, determining that the far-end modem is a V.32 modem.

26. (New) The method of claim 24, wherein determining whether the far-end modem is a V.32 modem or a secure modem comprises:

determining whether the response signal includes phase shifts; and

if the response signal includes phase shifts, determining that the far-end modem is a secure modem.

27. (New) The method of claim 21, further comprising:

determining from the response signal, an operational mode of the far-end modem.

28. (New) The method of claim 27, wherein determining the operational mode of the far-end modem comprises:

determining whether the response signal includes phase reversals; and

if the response signal includes phase reversals, determining that the far-end modem is a future secure voice system modem in alternate mode.

29. (New) The method of claim 27, wherein determining the operational mode of the far-end modem comprises:

determining whether the response signal includes a 128 dibit gap; and

if the response signal includes a 128 dibit gap, determining that the far-end modem is a future secure voice system modem in half-duplex mode.

30. (New) The method of claim 27, wherein determining the operational mode of the far-end modem comprises:

determining whether the response signal includes phase reversals;

determining whether the response signal includes a 128 dibit gap; and

if the response signal does not include phase reversals or a 128 dibit gap, determining that the far-end modem is a future secure voice system modem in interoperable mode.

31. (New) A method for determining a far-end modem type, comprising:
- receiving a response signal from a far-end modem in response to a transmitted P1800 Hz tone with phase reversals; and
 - determining from the response signal whether the far-end modem is a commercial modem or a secure modem.
32. (New) The method of claim 31, wherein determining from the response signal whether the far-end modem is a commercial modem or a secure modem comprises:
- determining whether the far-end modem is a V.32 modem or a secure modem.
33. (New) The method of claim 32, wherein determining whether the far-end modem is a V.32 modem or a secure modem comprises:
- determining whether the response signal includes a V.32 AC; and
 - if the response signal includes a V.32 AC, determining that the far-end modem is a V.32 modem.
34. (New) The method of claim 31, further comprising:
- determining whether the response signal includes a future secure voice system (“FSVS”) Message A; and
 - if the response signal includes an FSVS Message A, determining that the far-end modem is an FSVS modem in alternate signaling mode.
35. (New) The method of claim 31, further comprising:
- determining whether the response signal includes a V.32 AC;
 - determining whether the response signal includes a future secure voice system (“FSVS”) Message A; and
 - if the response signal includes neither a V.32 AC nor an FSVS Message A, determining that the far-end modem is an FSVS modem in interoperable mode.
36. (New) The method of claim 31, further comprising:
- monitoring an incoming channel for energy at 2100 Hz; and

if 2100 Hz energy is present in the incoming channel for at least about one second, then determining whether the far-end modem is a V.32 compliant commercial modem or a secure modem in interoperable mode or alternate mode.

37. (New) A computer-readable medium having stored thereon computer executable instructions for performing a method for identifying a far-end modem type, the method comprising:

receiving a response signal from a far-end modem in response to a transmitted V.8 ANS_{am} tone; and

determining from the response signal whether the far-end modem is a commercial modem or a secure modem.

38. (New) A computer-readable medium having stored thereon computer executable instructions for performing a method for identifying a far-end modem type, the method comprising:

receiving a response signal from a far-end modem in response to a transmitted P1800 Hz tone with phase reversals; and

determining from the response signal whether the far-end modem is a commercial modem or a secure modem.